II. AMENDMENTS TO THE CLAIMS

The following is a listing of claims to replace all prior versions and listings of claims in the application:

- 1. (Currently Amended) A method of increasing transmission control protocol (TCP) re-transmission process speed, the method comprising the steps of: generating a first duplicate TCP acknowledgement (Ack) covering a received TCP segment that is determined to be valid by a local TCP and was dropped by the local TCP based on an upper layer protocol (ULP) decision; and transmitting the first duplicate TCP Ack.
- (Original) The method of claim 1, wherein the ULP includes at least one of: a
 marker with protocol data unit alignment (MPA) protocol, a direct data placement
 (DDP) protocol, and a remote direct memory access (RDMA) protocol.
- (Original) The method of claim 1, wherein the first duplicate TCP Ack is generated for a TCP segment regardless of whether the TCP segment is in-order or out-of-order.
- 4. (Currently Amended) The method of claim 1, wherein the first duplicate

 TCP Ack is generated even where in the case that a next in-order TCP segment has not been received.
- 5. (Original) The method of claim 1, further comprising the step of generating a 09/733,630 Page 2 of 9

second duplicate TCP acknowledgement (Ack) covering a next out-of-order received TCP segment.

- 6. (Original) The method of claim 5, further comprising the step of transmitting the second duplicate TCP Ack.
- 7. A system for increasing transmission control protocol (Currently Amended) (TCP) re-transmission process speed, the system comprising:

a TCP acknowledgement (Ack) generator to generate a first duplicate TCP Ack covering a received TCP segment that is determined to be valid by a local TCP and was dropped by the local TCP based on an upper layer protocol (ULP) decision.

- 8. (Original) The system of claim 7, further comprising means for transmitting the first duplicate TCP Ack.
- 9. The system of claim 7, wherein the ULP includes at least one of: a (Original) marker with protocol data unit alignment (MPA) protocol, a direct data placement (DDP) protocol, and a remote direct memory access (RDMA) protocol.
- 10. (Original) The system of claim 7, wherein the generator generates the first duplicate TCP Ack for a TCP segment regardless of whether the TCP segment is in-order or out-of-order.

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- 11. The system of claim 7, wherein the generator (Currently Amended) generates the first duplicate TCP Ack even where In the case that a next in-order TCP segment has not been received.
- 12. (Original) The system of claim 7, further comprising a TCP Ack generator for generating a second duplicate TCP acknowledgement (Ack) covering a next outof-order received TCP segment.
- 13. The system of claim 12, further comprising means for transmitting (Original) the second duplicate TCP Ack.
- 14. (Currently Amended) A computer program product comprising a computer useable readable storage medium having computer readable program code embodled therein for increasing transmission control protocol (TCP) retransmission process speed, the program product comprising:

program code configured to generate a first duplicate TCP acknowledgement (Ack) covering a received TCP segment that is determined to be valid by a local TCP and was dropped by the local TCP based on an upper layer protocol (ULP) decision.

The program product of claim 14, further comprising program code 15. (Original) configured to transmit the first duplicate TCP Ack.

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- 16. (Original) The program product of claim 14, wherein the ULP includes at least one of: a marker with protocol data unit alignment (MPA) protocol, a direct data placement (DDP) protocol, and a remote direct memory access (RDMA) protocol.
- 17. (Original) The program product of claim 14, wherein the generating program code generates the first duplicate TCP Ack for a TCP segment regardless of whether the TCP segment is in-order or out-of-order.
- 18. (Currently Amended) The program product of claim 14, wherein the generating program code generates the first duplicate TCP Ack even where in the case that a next in-order TCP segment has not been received.
- 19. (Original) The program product of claim 14, further comprising program code configured to generate a second duplicate TCP acknowledgement (Ack) covering a next out-of-order received TCP segment.
- (Original) The program product of claim 19, further comprising program code configured to transmit the second duplicate TCP Ack.